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**PRODUCTION OF 3,3',4,4'-BIPHENYLTETRACARBOXYLIC ACID SALT
HITACHI LTD**

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Abstract:

PURPOSE: To obtain the titled compound useful as a raw material of polymers, with easy separation and recovery of the reaction product, in high yield, by carrying out the dehalogenation dimerization of a 4-halogeno-orthophthalic acid salt with formic acid, etc. in the presence of a Pd-supported catalyst and a base.

CONSTITUTION: The 4-halogeno-orthophthalic acid salt of formula I (X is halogen) is subjected to the dehalogenation dimerization using especially water as the solvent, in the presence of a catalyst prepared by supporting metallic Pd on a carrier, preferably Pd/C catalyst, etc. and a base such as KOH, and in the presence of formic acid or an alkaline aqueous solution at 70W150°C under a pressure of $\leq 10\text{kg/cm}^2$ for 0.2W20hr. After the completion of the reaction, the reaction liquid is cooled, the Pd-carrier catalyst is removed by filtration, and the filtrate is acidified (1W3pH) with hydrochloric acid to obtain the objective compound of formula II as white precipitate.

USE: Used as raw material of polyimide, epoxy resin hardener, etc.

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